

Amendments to the Claims

Please amend Claim 44. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Previously presented) Retroreflective sheeting, comprising:
 - a) a plurality of first open-faced cube-corner surfaces formed from a substantially rigid material to keep the first cube-corner surfaces from flexing, the first cube-corner surfaces being disposed on a first side of a carrier substrate;
 - b) a plurality of second open-faced cube-corner surfaces formed from the substantially rigid material to keep the second cube-corner surfaces from flexing, the second cube-corner surfaces being disposed on a second side of the carrier substrate; and
 - c) an optical coating disposed on at least some of the first and second cube-corner surfaces, light incident on the optical coating being retroreflected without passing through the substantially rigid material.
2. (Original) The sheeting of claim 1, wherein the optical coating includes a specular coating.
3. (Original) The sheeting of claim 1, wherein the optical coating includes a low index of refraction dielectric material.
4. (Original) The sheeting of claim 3, wherein the index of refraction is in the range of between about 1.1 and 1.3.
5. (Original) The sheeting of claim 1, wherein the substantially rigid material is selected from a group consisting of thermoplastic and thermoset polymers.

6. (Original) The sheeting of claim 5, wherein the polymers further include a filler which is selected from a group consisting of glass, graphite, polymers, and metals.

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11. (Previously presented) The sheeting of claim 1, wherein a plurality of voids form the first and second open-faced cube-corner surfaces.

12. (Original) The sheeting of claim 11, wherein each void includes three surfaces which meet at a nadir.

13. (Previously presented) The sheeting of claim 1, further comprising a color coating on at least some of the first and second open-faced cube-corner surfaces.

14. (Previously presented) The sheeting of claim 1, wherein the sheeting is diced into chips and mixed into or placed on at least one or more of the following: a coating, a paint, a polymer, or an adhesive.

15. (Previously presented) The sheeting of claim 14, further comprising a top coat covering the at least one of the coating, the paint, the polymer, or the adhesive.

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18. (Previously presented) The sheeting of claim 1, wherein the sheeting is breakable into chips.

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22. (Original) The sheeting of claim 1, further comprising patterns on the retroreflective sheeting having no open-faced cube-corner surfaces.
23. (Previously presented) The sheeting of claim 22, wherein the patterns form walls in the retroreflective sheeting that extend from the carrier substrate to a prism ridge, the thickness of the walls being in the range of between about 25.4 and 1,270 micrometers (0.001 and 0.05 inches).
24. (Original) A projection screen which includes the retroreflective sheeting of claim 1.
25. (Previously presented) Retroreflective sheeting, comprising:
 - a) a first plurality of three-sided indentations which form first open-faced cube-corners;
 - b) a second plurality of three-sided indentations which form second open-faced cube-corners opposing the first open-faced cube-corners; and
 - c) a reflective coating disposed on at least a portion of the first and second three-sided indentations for retroreflecting light that does not pass through the sheeting.
26. (Previously presented) The sheeting of claim 25, further comprising a carrier sheet, disposed between the first and second open-faced cube-corners.
27. (Previously presented) The sheeting of claim 25, wherein the sheeting is diced into chips having a length less than about 457 micrometers.
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29. (Previously presented) The sheeting of claim 27, wherein the chips are disposed on or in an adhesive.

30. (Previously presented) The sheeting of claim 27, wherein the chips are disposed on or in at least one of a coating, a paint, a polymer, or an adhesive.
31. (Original) The sheeting of claim 25, further comprising patterns in the retroreflective sheeting having no open-faced cube-corner surfaces.
32. (Previously presented) Retroreflective chip, comprising:
 - a) a structure having a plurality of open-faced cube-corner surfaces formed therein, the structure having a length less than about 457 micrometers; and
 - b) a metal layer formed on the surfaces that retroreflects incident light thereon such that retroreflected light does not pass through the structure.
33. (Previously presented) The chip of claim 32, wherein the open-faced cube-corner surfaces are first open-faced cube-corner surfaces and the structure includes a plurality of second open-faced cube-corner surfaces which oppose the first open-faced cube-corner surfaces.
34. (Withdrawn) A method for forming retroreflective sheeting, comprising:
 - a) forming a plurality of open-faced cube-corner surfaces from a substantially rigid material to keep the cube-corner surfaces from flexing;
 - b) forming a specular coating on the surfaces; and
 - c) attaching a fill layer to at least a portion of the specular coating.
35. (Withdrawn) The method of claim 34, further comprising the step of forming the cube-corner surfaces on a carrier film.
36. (Withdrawn) The method of claim 35, further comprising the step of forming a second layer of retroreflective open-faced cube-corner surfaces on a back side of the carrier film such that a first layer of retroreflective open-faced cube-corner surfaces and the second

layer of retroreflective open-faced cube-corner surfaces are back to back with the respective open-faced surfaces facing away from each other.

37. (Withdrawn) The method of claim 35, further comprising the step of continuously forming the cube-corner surfaces on the carrier film.
38. (Withdrawn) The method of claim 34, further comprising the step of forming the sheeting into chips.
39. (Withdrawn) The method of claim 34, further comprising the step of forming a top coat over the fill layer.
40. (Withdrawn) The method of claim 34, further comprising the step of forming a color coating on at least some of the surfaces.
41. (Withdrawn) The method of claim 34, wherein the fill layer comprises a material with an application viscosity of less than or equal to about 1,000 centipoise.
42. (Withdrawn) The method of claim 34, further comprising the step of forming the open-faced cube-corner surfaces on a back side of traditional retroreflective sheeting having cube-corner prisms, the open-faced cube-corner surfaces and the cube-corner prisms facing away from each other.
43. (Withdrawn) A method for forming open-faced retroreflective sheeting, comprising:
 - a) forming a mold by forming three sets of grooves, the grooves intersecting at an angle to form a plurality of prisms, each prism having a base and three intersecting lateral faces which meet at an apex;
 - b) forming the retroreflective sheeting on the mold to form a mirror image of the mold wherein the resulting sheeting includes a plurality of three-sided indentations which form open-faced cube-corner surfaces;

- c) coating the open-faced cube-corner surfaces with an optical coating; and
 - d) attaching a fill layer to at least a portion of the optical coating.
44. (Currently amended) Retroreflective chips comprising open-faced cube-corner surfaces having an optical coating thereon, the coating retroreflecting light incident thereon such that light does not pass through the chips, each chip having a length less than about 457 micrometers.
45. (Original) The retroreflective chips of claim 44, further comprising second cube-corner surfaces having specular coating thereon laminated to a back side of the first open-faced cube-corner surfaces such that the respective open-faced surfaces face away from each other.
46. (Original) The retroreflective chips of claim 44, further comprising a color coating on at least some of the surfaces.
47. (Original) The retroreflective chips of claim 44, further comprising a fill layer attached to at least a portion of the optical coating, the fill layer having an index of refraction in the range of between about 1.5 and 1.65.
48. (Original) The retroreflective chips of claim 44, wherein the open-faced cube-corner surfaces include different size surfaces on the chips.
49. (Previously presented) The sheeting of Claim 1, wherein the substantially rigid material is colored.
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